

**Amendments to Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended)      Flame-retardant pressure-sensitive adhesive

comprising

(a) at least one acrylate adhesive component,

(b) a flame retardant component consisting of ammonium polyphosphate, and

(c) at least one tackifying resin component,

wherein said flame retardant component is the sole flame retardant component in the pressure-sensitive adhesive, wherein the flame retardant component comprises at least 25% by weight of the adhesive and no greater than 60% by weight of the adhesive, wherein the pressure-sensitive adhesive comprises a residual solvent and has a residual solvent content of not more than 0.5% by weight of the adhesive, wherein the residual solvent is selected from the group consisting of water, at least one organic solvent and mixtures thereof-less.

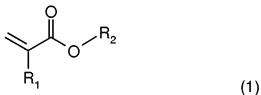
Claim 2 (original)      Pressure-sensitive adhesive according to Claim 1, wherein said at least one acrylate adhesive component comprises at least 35% by weight of the adhesive.

Claim 3 (canceled)

Claim 4 (previously presented) Pressure-sensitive adhesive according to Claim 1, wherein said at least one tackifying resin component comprises at least 25% of the adhesive.

Claim 5 (original) Pressure-sensitive adhesive according to Claim 1, wherein said at least one acrylate adhesive component has an average molecular weight  $M_w$  of not more than 600,000 g/mol.

Claim 6 (previously presented) Pressure-sensitive adhesive according to Claim 1, wherein said at least one acrylate adhesive component is based on at least one acrylate monomer of the formula (1)



where  $R_1$  is H or a  $CH_3$  radical and  $R_2$  is H or is selected from the group consisting of saturated, branched and unbranched  $C_1$  to  $C_{30}$  alkyl radicals.

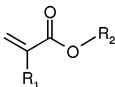
Claim 7 (previously presented) Pressure-sensitive adhesive according to Claim 6, wherein  $R_2$  is other than H and has one or more substituents selected from the group consisting of carboxyl, sulphonic acid, hydroxyl, lactam, lactone, N-substituted\_amide, N-substituted amine, carbamate, epoxy, thiol, alkoxy, cyano, halide and ether radicals.

Claim 8 (previously presented) Pressure-sensitive adhesive according to Claim 6 or 7, wherein said C<sub>1</sub> to C<sub>30</sub> alkyl radicals comprise alkyl groups of 4 to 14 carbon atoms.

Claim 9 (previously presented) Pressure-sensitive adhesive according to Claim 8, wherein said alkyl radicals are cycloalkyl radicals having at least 6 carbon atoms.

Claim 10 (canceled)

Claim 11 (previously presented) Pressure-sensitive adhesive according to claim 2, wherein said at least one acrylate adhesive component is based on at least one comonomer as well as on at least one acrylate monomer of the formula (1)



(1)

where R<sub>1</sub> is H or a CH<sub>3</sub> radical and R<sub>2</sub> is H or is selected from the group consisting of saturated, branched and unbranched C<sub>1</sub> to C<sub>30</sub> alkyl radicals.

Claim 12 (previously presented) Pressure-sensitive adhesive according to Claim 11, wherein said at least one comonomer has one or more substituents selected from the group consisting of carboxyl, sulphonic acid, hydroxyl, lactam, lactone, N-substituted amide, N-substituted amine, carbamate, epoxy, thiol, alkoxy, cyano, halide and ether radicals.

Claim 13 (previously presented) Pressure-sensitive adhesive according to Claim 11 or 12, wherein said at least one comonomer is a compound selected from the group consisting of N-alkyl-substituted amides.

Claim 14 (canceled)

Claim 15 (original) Pressure-sensitive adhesive according to Claim 11 or 12, wherein said at least one comonomer is a compound selected from the group consisting of vinyl esters, vinyl ethers, vinyl halides, vinylidene halides, vinyl compounds having aromatic rings or heterocycles in  $\alpha$ -position.

Claim 16 (original) Pressure-sensitive adhesive according to Claim 11 or 12, wherein said at least one comonomer is a photoinitiator having a copolymerizable double bond.

Claim 17 (original) Pressure-sensitive adhesive according to Claim 11 or 12, wherein an aromatic vinyl compound having C<sub>4</sub> to C<sub>18</sub> aromatics or heteroaromatics is added to said at least one comonomer.

Claim 18 (previously presented) Pressure-sensitive adhesive according to Claim 1 wherein said at least one tackifying resin component is selected from the group consisting of pinene resins, indene resins and rosins or their salts; aliphatic, aromatic and alkylaromatic C<sub>5</sub> to C<sub>9</sub> hydrocarbon resins; hydrocarbon resins based on single monomers; hydrogenated hydrocarbon resins; hydrocarbon resins; natural resins; terpene resins and terpene-phenolic resins.

Claim 19 (original) A flame-retardant pressure-sensitive adhesive tape, comprising a carrier tape which is impregnated with a flame retardant and is coated on one or both sides with the pressure-sensitive adhesive of Claim 1.

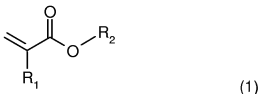
Claim 20 (original) Flame-retardant pressure-sensitive adhesive tape according to Claim 19, wherein the carrier tape used is a nonwoven PET web or a woven/nonwoven composite, or a woven fabric.

Claim 21 (original) Flame-retardant pressure-sensitive adhesive tape according to Claim 19 or 20, wherein the carrier tape is coated with the pressure-sensitive adhesive as a melt by a hotmelt process.

Claim 22 (currently amended) Process for producing a flame-retardant pressure-sensitive adhesive of Claim 1, wherein

- (a) at least one acrylate adhesive component is prepared by at least partly polymerizing at least one acrylate monomer, optionally in the presence of at least one comonomer, and
- (b) successively or simultaneously a flame retardant component and at least one resin component are combined with the at least one acrylate adhesive component, wherein the flame retardant component consists of ammonium polyphosphate, wherein the flame retardant component is the sole flame retardant component in the pressure-sensitive adhesive, and further wherein the flame retardant component comprises at least 25% by weight of the adhesive and no greater than 60% by weight of the adhesive, wherein the pressure-sensitive adhesive comprises a residual solvent and has a residual solvent content of not more than 0.5% by weight of the adhesive, wherein the residual solvent is selected from the group consisting of water, at least one organic solvent and mixtures thereof less.

Claim 23 (previously presented) Process according to Claim 22, wherein said at least one acrylate monomer is of the formula (1)



in which R<sub>1</sub> is H or an CH<sub>3</sub> radical and R<sub>2</sub> is H or is selected from the group consisting of saturated, branched and unbranched, C<sub>1</sub> to C<sub>30</sub> alkyl radicals.

Claim 24 (original) Process according to Claim 22 or 23, wherein the polymerization is conducted in solution or in bulk.

Claim 25 (previously presented) Process according to any Claim 22 or 23, wherein the flame retardant component and the at least one resin component are compounded into a melt of the at least one acrylate adhesive component.

Claim 26 (previously presented) Pressure-sensitive adhesive according to Claim 1, wherein an amount of the flame retardant component is from 30 to 40% by weight of the adhesive.

Claim 27 (original) Pressure-sensitive adhesive according to Claim 8, wherein  $R_2$  is selected from the group consisting of  $C_4$  to  $C_9$  alkyl radicals

Claim 28 (original) Pressure sensitive adhesive according to Claim 13, wherein said at least one comonomer is selected from the group consisting of N,N-dimethylacrylamide, N,N-dimethylmethacrylamide, N-tert-butylacrylamide, N-vinylpyrrolidone, N-vinylactam, dimethylaminoethyl acrylate, dimethylaminoethyl methacrylate, diethylaminoethyl acrylate, diethylaminoethyl methacrylate, N-methylolacrylamide, N-methylolmethacrylamide, N-(butoxymethyl)methacrylamide, N-(ethoxymethyl)acrylamide and N-isopropylacrylamide.

Claim 29 (original) Pressure sensitive adhesive according to Claim 15, wherein said vinyl compounds having aromatic rings or heterocycles in  $\alpha$ -position are selected from the group consisting of vinyl acetate, vinyl formamide, vinylpyridine, ethyl vinyl ether, vinyl chloride, vinylidene chloride and acrylonitrile.

Claim 30 (original) Pressure sensitive adhesive according to Claim 16, wherein said comonomer is selected from the group consisting of Norrish I photoinitiators, Norrish II photoinitiators, benzoin acrylates and acrylated benzophenones.



Claim 31 (original) Flame-retardant pressure-sensitive adhesive tape according to  
Claim 21, wherein said hotmelt process is selected from the group consisting of  
roller coating, melt die processes and extrusion coating.

Claim 32 (original) Process according to Claim 25, wherein said components are  
compounded into a melt by an extrusion process.